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Canada M5S 1A1

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New Approach to UTCS Services

This issue of *COMPUTERNEWS* contains a small change to the normal standing copy that makes up the last several pages of each issue. If we were not calling your attention to it, this change would probably go unnoticed by most of our readers. Past issues have contained a page titled "UTCS Systems." This page has been replaced with one titled "UTCS Services." We believe that this title reflects the changing role UTCS will play in regard to computing activities on campus.

As most of you are aware, UTCS engages in an annual planning cycle which starts in the fall and culminates in our budget being established each spring. While we do not yet have our budget for next year, we are now able to state directions which UTCS will be following. The following is a direct quotation from the annual plan, which has been approved by the UTCS Board.

The principal mandate of UTCS should be to plan, implement and operate central computer facilities and "common-carrier" data networks, and to plan and support divisional, departmental or project computer facilities as requested.

In carrying out this mandate, certain basic operating principles must be observed:

1. Each UTCS service must be explicitly defined in terms of resources, results, costs, and the source of funds to pay for it.
2. Certain of UTCS' communications or computer services will be centrally funded or subsidized; the rest will be operated on a cost-recovery basis, with UTCS having the flexibility to expand, modify or discontinue self-funding services.
3. The focus of UTCS' effort will be not on the independent development of systems but on the implementation and integration of systems defined on the basis of academic or administrative needs.

In accordance with this mandate and subject to these operating principles, a few strategic directions can be identified, against which our annual planning exercise should be tested. These directions reflect changes in both computer technologies and in the locus of responsibilities for computer-development decisions, changes that influence over time the mix and balance of UTCS services.

1. UTCS will become increasingly involved in the expansion of telecommunications services on campus as a provider of common-carrier services.
2. In support of common-carrier services, UTCS will have to maintain at least one integrated computer/communications environment, and should have available substantial expertise in the implementation and use of information technologies.
3. UTCS will provide facilities compatible with vendor independent standards whenever possible.
4. Increasingly, UTCS should support application packages that allow users flexibility in storing data and processing it at the most efficient place on the campus computer network.
5. Facilities management for others will grow in importance as a UTCS cost-recovery service.
6. More resources will be needed to provide a carefully selected set of micro computer support services, consistent with changing patterns of machine ownership and directions in academic computing.
7. A number of facilities are likely to be specifically, but not necessarily uniquely, provided and supported by UTCS because of their high cost to divisional units. These might include super-computing services, large-scale data storage and staging, high quality print or graphics devices, fourth generation languages, scanners, some public data bases and tape storage and retrieval.

These directions mark a very deliberate shift from the image of UTCS being primarily an operator of large central machines. The increased emphasis on facilities management and networking reflect these changes.

Clearly computation and data processing have changed dramatically since UTCS was established. We believe it is essential that the UTCS role evolve with these changes.

We expect that for some time to come, there will be users who still do all their computing on central resources. In brief, their reasons for using central facilities include package availability, infrequent usage, special requirements related to size, or simply that they do not wish to have their own equipment. However, as the cost of computing power decreases, and new uses for computers are found, many people (either

continued...

New Approach continued

as individuals or as members of an organization) will benefit from having their own equipment. While the benefits of economy of scale still apply to some centralized computing services, these benefits are not as ubiquitous as they once were.

In the face of the above situation, it makes sense that UTCS should focus its energies on providing those services that are most effectively delivered from resources that can be shared. We believe these resources fall into four broad categories. First, as already indicated, UTCS will continue to provide computational power to those individuals and groups who cannot yet take advantage of the benefits of decentralized ownership or who do not want to run their own systems. Second, UTCS will provide the systems, operations, communications, and applications support to those who judge

it to be in their interest to request these services rather than do it on their own. Third, UTCS will provide backbone networks to which other networks and machines may connect. Fourth, UTCS will act as an information centre to provide advising and consulting support to assist users in achieving their computer related goals.

While the provision of machine based services is not disappearing from the list of UTCS services, there is an increasing emphasis on providing staff based services. The change to the standing copy may seem insignificant, but we believe that the new directions outlined here are quite important.

Don Gibson

Accounting: University Fiscal Year End

Users are reminded that the University Fiscal Year End is April 30. This means that all blanket orders (Encumbrance Memos) raised for computing on a Departmental Appropriation Account (Ledger 1) will expire with the approach of that date.

The Comptroller's Office has given UTCS a billing close-off date of April 24 for charges to blanket orders. Therefore, the last day for accruing machine charges, to be applied to the blanket order, is **April 23**. The balance of the blanket order is then returned to the free balance of the department's appropriation account after the April 24 billing is processed by the Comptroller's Office.

The balance of April's charges, from April 24 to 30 (at 5:00 p.m.) will be charged to the free balance of the appropriation, to the limit returned to the free balance. For example, if the remaining balance of a blanket order is \$200 after billing and the total usage for the last seven days of April is \$225, \$200 will be billed to the free bal-

ance, and the remaining deficit of \$25 will be carried forward and billed to the blanket order for the new budget year. The Accounting Services Office may be able to assist an account administrator in avoiding a deficit carryforward at the end of the budget year. Surplus funds in the free balance of the appropriation account may be carried forward. The last date for billing to an appropriation number through a debit memo is April 29.

In order to achieve uninterrupted service over the year end, account administrators are advised to do the following:

1. Supply the Accounting Services Office with blanket order (Encumbrance Memo) for the new budget year by April 20. It should clearly show the BPOA holder's name, the BPOA number, the dollar amount, and the 1984/85 Encumbrance Memo number that it is replacing. In the case of a new account, where the BPOA and previous Encumbrance Memo

continued...

Accounting continued

- numbers are not available, "NEW ACCOUNT" should be indicated.
2. If more than one CAN is associated with the BPOA, a listing should be made of the CANs to be used in the new year and the initial spending limit of each. A course name or project title should also be included if this information is desired on accounting reports for identification purposes. If new CANs are required and/or previous CANs are to be closed, this information should be included on the same listing.
 3. Service Access Codes should be checked to determine whether they are required in the new year. If they are, the expiry date should be checked and changed if required. Spending limits are another important consideration. If changes to total spending limit and usage to date require resetting, this information should also be communicated before the end of April. It has been the practice of Accounting Services in past years to calculate the balance remaining on a GPJS SAC, use this figure to establish the new spending limit and set the accumulated usage amount to zero. For example: if, at midnight on April 30, the SAC shows a spending limit of \$300 and usage to date of \$275, the SAC would be reset to show the spending limit as \$25, and usage to date as 0. This will be done automatically for all instructional and administrative GPJS SACs (not Research), unless you instruct otherwise. As you can see from the preceding example, establishing the old balance as the new spending limit may not be adequate to carry on work planned for May.

4. To ensure that the final billing includes all charges relating to a job run at 5:00 p.m. on April 30, **jobs in the hold queue must be printed or purged** by the user.

The discussion thus far has dealt mainly with the year-end situation as it normally affects instructional and administrative type users. Researchers are also affected by the expiration of departmental subsidy blanket orders. In this case, Departmental Computing Representatives are requested to supply Accounting Services with a copy of the new subsidy blanket order for each researcher by April 20.

We hope that this information is enough to help but not confuse. Account Administrators are encouraged to discuss any doubts or difficulties arising with accounts or access codes at any time by calling the Accounting Services staff at the following numbers.

Agatha Stevens	978-8703
Sylvia May	978-7148
Marg Doherty (Supervisor)	978-8697

Mail should be addressed as follows:

UTCS Accounting Services
255 Huron Street, Room 337
University of Toronto

You may prefer to pay us a visit on occasion. We are here from 9:00 a.m. to 5:00 p.m., Monday through Friday.

Marg Doherty

Toronto DECUS Symposium

DECUS stands for Digital Equipment Computer User Society. The organization's aim is to facilitate communication among the users of DEC computers and between the users and DEC itself. Its annual symposium is one of DECUS Canada's major contributions toward the realization of that goal. It is also one of the best methods DEC's customers have of communicating directly to both Digital's management and technical staff.

The 1985 DECUS Canada Symposium was held February 19-22 at the new downtown Toronto hotel, L'Hôtel, and at the adjacent Convention Center. More than 150 individual sessions, were held over the three days of the symposium. Much of the time the 499 in attendance had to choose from as many as nine parallel sessions.

In addition to the usual set of operating system oriented sessions, there were entire interest streams devoted to topics such as Commercial/Management, Networks and Office Automation.

This year's Commercial stream gave those in attendance a chance to discuss their favorite issues with most of Digital Equipment Canada's top management, including President Ken Copeland. This kind of high level contact is simply not possible for most users in any other way.

As a complement to the usual set of advanced technical sessions, there were several intended to cover the foundations of such topics as the C programming language, database systems, security, and site preparation.

One of the real highlights of this symposium was the exhibit area. Not only was the layout pleasing to the eye, but it contained a greater and more interesting variety of hardware and software than ever before seen at a DECUS Canada Symposium. A VAX/750 ran numerous applications, which were demonstrated throughout the hall. In addition there was a MicroVAX-I running ULTRIX-32, as well as numerous PRO, Rainbow and DECmate micros scattered about.

Speaking from my perspective as co-chairman, I can tell you that it is not easy to put on a successful symposium. But this year's planning committee (including UTCS staff members Terry Jones and Bruce Pinn, and former UTCSer Bob Lawson) did an outstanding job. It was a pleasure for me to be part of it.

The next DECUS Canada Symposium has been scheduled for February, 1986, in Edmonton, Alberta. Reports from the last symposium held there were very good. So start making your plans to attend now. See you there.

Dr. Edmund West

Microcomputer News: Software Evaluations

Members of the microcomputer support, text processing, and statistics groups are continuing to solicit, receive, and review software packages for microcomputers. In Version 1 of *An Academic's Guide to Microcomputer Systems* (forthcoming Spring 1985), you will find reviews of several packages. (All are for the IBM PC and

compatibles unless otherwise noted.) These packages are:

Word Processing

Gutenberg Sr. (Apple 2)

The FinalWord, Version 1.18

MacWrite (Macintosh)

Microsoft Word, Version 1.1

continued...

Microcomputer News continued

ProofWriter
VolksWriter Scientific

Database and File Management
dBase II

Statistics
SPSS/PC (PC-XT)

Spreadsheet Analysis
Lotus 123
Multiplan

Communications
KERMIT (IBM and Apple)

Graphics
Dr. Halo
MacPaint (Macintosh)

We regularly write to software manufacturers for evaluation copies and have so far received a few. These will also appear in the *Guide*, though perhaps in later editions, since they are in various stages of review.

Of word processors, Samna III, Nota Bene, Triad, and WordPerfect (Version 4.0) are currently under review. ProofWriter, VolksWriter Scientific, Triad, and TechWriter are four word processing packages for technical writing that we are reviewing and comparing at the request of interested faculty members in Biomedical Engineering, Economics, Management Science, and Mathematics.

Of database and file managers we have dBase III, FoxBase II, and the demonstration version of the Personal Bibliographic System, which has been donated. FoxBase is a database manager modeled after dBase II, but which provides a compiler and runtime module. The compiler accepts dBase source code and produces programs that run several times faster than they would under dBase. We have also been promised evaluation copies of Notebook II and Bibliography, both of which were recently reviewed in the *Research in Word Processing Newsletter* (vol. 3, no. 1). Notebook is a database manager for textual applications; according to the review, Bibliography searches a text and, with reference to a Notebook database, constructs a bibliography of the items cited in it.

We have also been promised a copy of Compu-Bible, which contains a database of the complete consonantal Hebrew text of the Bible. This package includes a full-screen editor for work in both Hebrew and English, and several programs for analysis of the biblical text.

Anyone interested in these packages is welcome to contact us at 978-8701. We are also quite willing to negotiate with software vendors for evaluation copies of any current software in which there is sufficient interest.

Dr. Willard McCarty

Library Discards Free for the Taking

It is a truism that librarians hate to throw anything away, and the staff at the Computer Library and the Information Office are no exception. Obviously, this professional trait conflicts with the nature of a technical library, where material is so rapidly outdated. The conflict has been resolved in this case by designating a small area in the library as temporary storage for discarded reports and manuals. Of course, these items have usually been superseded by later edi-

tions, but they often contain basic information that is still valid.

If you would like to look through the pile of discards, just ask one of the staff in Room 206, Engineering Annex. You won't find any first editions of *Oliver Twist*, but you may find something valuable in its own way.

Martha Parrott

Bargain Price Connection to IBM Mainframes

The Office of Academic Statistics and Records has a Northern Telecom 8-channel controller and three display terminals for sale. They are in excellent condition. A Hewlett Packard printing terminal 2635A with a 1200 B modem, and a Datamedia display terminal with a 300 B acoustic coupler are also available.

For more information, or to make an offer, call Kitty Cheung at 978-3629.

J. Tusiewicz

BIS Equipment For Sale

Business Information Systems (BIS) has a Northern Telecom 294-C remote control unit for sale. It can connect up to 32 devices, uses BSC or SDLC protocols, and is currently running on a remote line at 9600 BPS. Also for sale are eighteen 298-2 terminals; they are IBM 3270 compatible and have 24 function keys.

The control unit and terminals may be purchased individually or as a package. All equipment will be available as of August, 1985. Anyone who is interested, please call Jim Hindorff at 978-5413.

Jim Hindorff

UTCS Noncredit Short Courses

UTCS offers a number of short, noncredit courses on the use of various products and services that we support. These courses are available to students, faculty and staff of the University of Toronto, as well as to other users of our systems.

Anyone interested in taking any of these courses must register in person with:

Education Coordinator
Engineering Annex, Room 207
978-4565

Complete course descriptions for these and other noncredit courses offered at UTCS are available at the Information Office, Engineering Annex, Room 206, and at the Accounting Services Office, McLennan Physical Labs, Room 337.

A nonrefundable Administration Fee of \$10 per course is due at the time of registration. It may be paid by cash, cheque or on a Customer Account Number (CAN).

(Anyone interested in credit courses should contact the Dept. of Computer Science at 978-6360.)

All short courses are held in the UTCS Education Facility, Room 221, McLennan Physical Labs. Due to the limited seating capacity in the Education Facility, and the number of terminals available for our hands-on courses, registration is required for short courses.

The following courses are offered during April and May:

JCL101 - Introductory JCL

Date: May 27-31, 1985

Time: 2:00-3:00 p.m.

Please note that we reserve the right to cancel courses, if registration is too low.

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UTCS Short Courses continued**SAS201 - Intermediate SAS**

Date: May 6-10, 1985
Time: 2:00-3:00 p.m.

TXT/UNIX101 - ed and SCRIBE on GP UNIX

Date: May 21-31, 1985 (Mon.-Fri.)
Time: 9:30-11:30 a.m.

SAS/GRA101 - Introduction to SAS/GRAPH

Date: April 18, 1985
Time: 2:00-5:00 p.m.

TXT/UNIX103 - NROFF and TROFF on GP UNIX

Date: April 15-26, 1985 (Mon.-Fri.)
Time: 9:30-11:30 a.m.

SAS/TSO101 - Introduction to SAS/TSO

Date: May 6-17, 1985 (Mon.-Fri.)
Time: 10:00-12:00 noon

TXT/UNIX203 - TBL Program on GP UNIX

Date: April 29-30, 1985
Time: 9:30-11:30 a.m.

Irene Rosiecki

Change Committee

Changes to the IBM 3033/N12

1. The NAg Mark 11 software package was installed for testing on January 25 and then for production on March 5.
2. Tape drives on the IBM 3033/N12 machine were upgraded to mod 6 on February 8.
3. Release 3.1 of COGS catalogued PROCS has been in test and was installed for production on March 7.

Changes to Other Systems and Services

1. In response to the Department of Computer Science, CDF was provided with access to GPJS on the IBM 3033/N12 system on March 1.

2. A new PACX service, the P2K, has been temporarily added to our current PACX network and is being tested by UTCS' Communications and Technical Support group. This test situation was requested by Gandalf Data Inc. because of UTCS' fibre optics environment.
3. Two XT-100s and two Series/1 ports were removed from the BICS service on February 22 and dedicated to PACX to aid in the testing of the P2K.
4. New XEROX patches were added to the 8700 laser printer and are expected to correct some known problems.

Joan Coutts

Hours of Service

Good Friday through Easter Sunday			
	April 5 (Friday)	April 6 (Saturday)	April 7 (Sunday)
IBM 3033/N12 GPJS (Classes B and E, Calcomp)	closed	10:00-18:00	10:00-18:00
IBM 3033/N12 GPJS (Class A, WYLBUR, APL, TSO)	unattended	10:00-18:00*	10:00-18:00*
DECsystem-10, GP UNIX	unattended	10:00-18:00*	unattended
BICS	unattended	unattended	unattended
Normal hours of service for all systems will resume Monday, April 8, 1985.			
Victoria Day Weekend			
	May 18 (Saturday)	May 19 (Sunday)	May 20 (Monday)
IBM 3033/N12 GPJS (Classes B and E, Calcomp)	10:00-18:00*	10:00-18:00*	closed
IBM 3033/N12 GPJS (Class A, WYLBUR, APL, TSO)	10:00-18:00*	10:00-18:00*	unattended
DECsystem-10, GP UNIX	10:00-18:00*	unattended	unattended
BICS	unattended	unattended	unattended
Normal hours of service will resume on Tuesday, May 21, 1985.			
* Running unattended these hours.			

New UTCS Documents

To print online documents on

IBM

WYLBUR users type “do document”

TSO users type “help document”

APL users type “”)LOAD 1 UTCSGUIDE<CR>HELP”

DECsystem-10

use iprint or SOS/R command

GP UNIX

use ipr or cat command

Recommended forms code for the 8700 is YXLE unless otherwise noted.

New UTCS Documents in hardcopy

Previously announced:

UTCS GUIDE TO PRODUCTS AND SERVICES:

Introduction

UTCS GUIDE TO PRODUCTS AND SERVICES:

Basics

UTCS GUIDE TO PRODUCTS AND SERVICES:

Accounting

UTCS Catalogue: Access, Part 1

UTCS Catalogue: Access, Part 2

UTCS Catalogue: IBM MVS Utilities

UTCS Catalogue: Numerical Products

UTCS Catalogue: Storage

UTCS Catalogue: Text Products

UTCS Guide to Census Tapes

UTCS Guide to File Transfer Service

UTCS Guide to GP UNIX

UTCS Guide to Highspeed Printing

UTCS Guide to KERMIT

UTCS Guide to Mainframe File Transfer Facility

UTCS Guide to SCRIBE

UTCS Guide to Text Processing on GP UNIX

The SOS Workbook

New UTCS Guides online

UTCS Catalogue: Numerical Products

IBM: MANUAL=NUMCAT

GP UNIX: /usr/doc/utcs/numcat

Product-Function List

IBM: MANUAL=NUMLIST

GP UNIX: /usr/doc/utcs/numlist

Recommended forms code is BXQD.

UTCS Catalogue: Text Products

IBM: MANUAL=TEXTCAT

GP UNIX: /usr/doc/utcs/textcat

Previously announced:

UTCS GUIDE TO PRODUCTS AND SERVICES:

Basics

IBM: MANUAL=BASICS

DEC: DOC:BASICS.DOC

GP UNIX: /usr/doc/utcs/basics

UTCS Catalogue: IBM MVS Utilities

IBM: MANUAL=MVSUTIL

Product-Function List

IBM: MANUAL:UTILLIST

Recommended forms code is BXQD.

UTCS Guide to APL

IBM: MANUAL=APLGD

UTCS Guide to APL XFR

IBM: MANUAL=APLXFR

UTCS Guide to Census Tapes

IBM: MANUAL=CENSUS

DEC: DOC:CENSUS.DOC

GP UNIX: /usr/doc/utcs/census

UTCS Guide to File Transfer Service

IBM: MANUAL=FTS

DEC: DOC:FTS.DOC

UTCS Guide to GPJS

IBM: MANUAL=GPJSX

DEC: DOC:GPJS.DOC

GP UNIX: /usr/doc/utcs/gpjs

UTCS Guide to Highspeed Printing

IBM: MANUAL=PRINT

DEC: DOC:PRINT.DOC

GP UNIX: /usr/doc/utcs/print

UTCS Guide to IBM MVS Online Storage

IBM: MANUAL=IBMDISK

UTCS Guide to KERMIT

IBM: MANUAL=KERMIT

DEC: DOC:KERMIT.DOC

GP UNIX: /usr/doc/utcs/kermit

UTCS Guide to Mainframe File Transfer Facility

IBM: MANUAL=MFTF

UTCS Guide to SCRIBE

DEC: DOC:SCRIBE.DOC

(For printing instructions, see page I of document.)

UTCS Guide to Series/I Terminal Use

IBM: MANUAL=SERIES

3270 Emulation:

UTCS Guide to

Cybernex APL100 and Volker Craig VC404

(MANUAL=CYBER)

DMI520 (MANUAL=DMI520)

Hardcopy Terminal (MANUAL=HARDCOPY)

IBM 3101 (MANUAL=IBM3101)

SOROC IQ (MANUAL=SOROC)

VT52 (MANUAL=VT52)

VT100 (MANUAL=VT100)

UTCS Guide to SUBUTILS

IBM: MANUAL=SUBUTILS

UTCS Guide to Text Processing on GP UNIX

GP UNIX: /usr/doc/utcs/text

Recommended forms code is YXJE.

UTCS Guide to TFW.MAK in SCRIBE

DEC: DOC:TFW.DOC

UTCS Guide to TSO (Draft)

IBM: MANUAL=TSOGD

UTCS Guide to UTDSUTIL

IBM: MANUAL=UTDSUTIL

Recommended forms code is YXJE.

UTCS Guide to WYLBUR

IBM: MANUAL=WYLINTRO

UTCS WYLBUR Tutorial

IBM: MANUAL=WYLTUTOR

The SOS Workbook

DEC: DOC:SOSWRK.DOC

Recent Acquisitions in the Computer Library

Association for Computing Machinery.
Proceedings of the 39th (1984) annual
conference.

Dreyfuss, Henry.
Symbol sourcebook: an authoritative guide to
international graphic symbols.
New York, Van Nostrand, 1984.

Gardan, Yvon. and Lucas, M.
Iterative graphics in CAD.
New York, UNIPUB, 1984.

Harrington, Steven.
Computer graphics: a programming approach.
New York, McGraw-Hill, 1983.

IBM Symposium on Mathematical Foundations
of Computer Science, 7th, Hakone, Japan,
May 1982.

Mathematical theory of computations.
Tokyo, IBM Japan, 1982?

Lloyd, John Wylie.
Foundations of logic programming.
Berlin, Springer-Verlag, 1984.

Lunell, Hans.
Code generator writing systems.
Linköping, Sweden, University, 1983.

Stephanie Johnston

Technical Reports Recently Received in the Computer Library

Carnegie-Mellon University

- | | |
|-----------------------------------|--|
| Peters, Joseph and Rudolph, Larry | Parallel approximation schemes for subset sum
and knapsack problems.
22 p., #155-84. |
| Sugie, M. et al. | CARGuide---on-board computer for
automobile route guidance.
12 p., #144-84. |
| Tomita, Masaru | The design philosophy of personal machine
translation system.
6 p., #142-84. |

University of Manchester

- | | |
|--------------|---|
| Higham, N.J. | Computing real square roots of a real
matrix.
32 p., #89. |
| Higham, N.J. | Newton's method for the matrix square root.
27 p., #91. |
| Higham, N.J. | Upper bounds for the condition number of a
triangular matrix.
35 p., #86. |

continued...

Computer continued**Stanford University**

Desarmenien, Jacques

How to Run T_EX in French.

42 p., #1013.

Konolige, Kurt

A deduction model of belief and its logics.

295 p., #1022.

Kunz, John C.

Use of artificial intelligence and simple mathematics to analyze a physiological model.

169 p., #1021.

Lowe, David G.

Perceptual organization and visual recognition.

142 p., #1020.

The Royal Institute of Technology, Stockholm, Sweden

Li, Jiarong

Generation of some Chinese characters with metafont.

36 p., NA-8412.

Mellgren, Dag

Unification in some equational theories and the Knuth-Bendix algorithm.

67 p., NA-8411.

University of Wisconsin

Carey, Michael J. et al.

Mechanisms for concurrency control and recovery in PROLOG - a proposal.

19 p., #560.

Hsieh, Jian-tu et al.

Performance evaluation of the PIPE computer architecture.

55 p., #566.

Stephanie Johnston

Consulting and Enquiries

Advising Supervisor	Terry Jones	MP345	4757
External Marketing Consultant	Ihor Prociuk	MP350	6875
Erindale College	Peter Wall	2035	828-5311
Scarborough College	William Barek	S626	284-3173
General Enquiries	Dale Wright	EA206	4990
Account & Access Code Enquiries (U of T)	Agatha Stevens	MP337	8703
Account & Access Code Enquiries (External)	Sylvia May	MP337	7148
Tape Library (Academic Services)	Stella Martin	MP368	7319
Tape Library (Administrative Services)	Miranda Fong	MP368	6693
Terminal Rentals	Theresa Kusy	SF4306	3787
U of T Computer Library	Stephanie Johnston	EA206	2987
Central Advising Office (Appointments)	HELP	300 Baud Interactive Services	6200
Central Advising Office (Phone-in)	HELP	1200 Baud Interactive Services	3959
Microcomputer Support Group	8701	DATAPAC	4320, 0056
Numerical/Statistical Advising	STAT	Telenet	0302043200056
System Status Enquiries (DEC)	4318	Tymnet	<backspace> DPAC;302043200056
System Status Enquiries (IBM)	7393		

UTCS Directory

Director	Dr. Warren Jackson	MP350	8948
Associate Director	Eugene Siciunas	MP350	5058
Budget Analysis Supervisor	Marg Doherty	MP350	8697
Managers			
Communications & Technical Support	Norman Housley	SF4306	4967
Internal Systems & Administration	Ron Vander Kraats	MP350	4428
Operations	Dr. Bob Chambers	MP350	7092
Systems	Bill Lauriston	MP331	3579
User Interface	Don Gibson	MP350	7331

Committees on Computing

UTCS Board	Chairman	Prof. D.M. Nowlan	4984
Committee on Academic Computing	Chairman	Prof. J.Z. Buchwald	7391
Committee on Computer Networks & Telecommunications	Chairman	Mr. A. Heyworth	4936
Committee on Computing Facilities & Services	Chairman	Prof. J.D. Bossons	8626
Natural Language Processing Steering Committee	Chairman	Prof. I. Lancashire	828-5273
UTCS Users' Committee	Chairman	Prof. J.C. Hurd	3056
	Secretary	Ms. C. Pereira	4463

UTCS Terminal and Advising Sites

Names and Locations

- Central Advising Office (CAO), 978-HELP
- Education Facility (Educ), McLennan Labs, 60 St. George St., Room 221
- Engineering Annex (EAT, EUT, CDF), 11 King's College Road, Rooms 103, 104, 107, 107B, 201, 203.
- Erindale College (Erin), 828-5339, Mississauga Road, Erindale Campus, Rooms 2005, 2039, 2045
- Robarts, Robarts Library, 130 St. George St., Room 1061A
- Scarborough College (Scar), 284-3122, Military Trail, Scarborough Campus, Rooms S624, S625, S627, S628, S628A
- Sidney Smith (AST & ASUT), 100 St. George St., Rooms 1071, 1073, 2104, 2105
- St.Michael's College, 121 St. Joseph St., Room 101
- Trinity College, 6 Hoskins Ave., Room 024
- Victoria University, 73 Queens Park Cres., Room 005.

Sites	Hours of Operation				Restrictions*	Advising
	Mon-Thurs	Fri	Sat	Sun		
AST	8:00-22:00	8:00-22:00	8:00-22:00	8:00-22:00	Research	978-HELP
ASUT	7:00-24:00	7:00-24:00	7:00-24:00	7:00-24:00	BICS	Arranged by Dept.
CAO	10:00-18:00	10:00-18:00	closed	closed	Research	978-HELP
CDF	24 hrs	24 hrs	24 hrs	24 hrs	Under	No
EAT	24 hrs	24 hrs	24 hrs	24 hrs	Research	Rm 106
Educ	24 hrs†	24 hrs†	24 hrs†	24 hrs†	Research**	978-HELP
(outer)	24 hrs†	24 hrs†	24 hrs†	24 hrs†	Research	978-HELP
Erin (2039)	9:00-17:00	9:00-17:00	24 hrs	24 hrs	Research	Rm 2005
(2045)	24 hrs	9:00-17:00	24 hrs	24 hrs	Undergrads	Rm 2005
EUT	24 hrs	24 hrs	24 hrs	24 hrs	BICS	Rm 107B
Robarts	8:30-24:00	8:30-24:00	9:00-17:00	13:00-22:00	BICS, Micros	Arranged by Dept.
Scar	9:00-24:00	9:00-24:00	10:00-17:00	closed	Research	Rm S624, S626
					Undergrads	Rm S624
St.Michael's	24 hrs	24 hrs	24 hrs	24 hrs	None	Arranged by College
Trinity	8:00-22:00	8:00-22:00	8:00-22:00	8:00-22:00	None	Arranged by College
Victoria	8:30-23:00	8:30-23:00	closed	closed	None	Arranged by College

* Research includes graduates, faculty, staff. ** May be unavailable due to UTCS courses.

† Building open Mon. - Thurs. 7:00 - 22:00, Fri. 7:00 - 17:00. Building closed Sat. & Sun.

Advising Hours

CAO	Monday through Friday, 10:00 - 18:00
EAT	Monday through Friday, 13:00 - 17:00 (Oct. - mid Dec., Jan. - Apr.)
Scar	Monday through Friday, 09:00 - 17:00
Erin	Mon. 09:00-17:00, Tues.-Thurs. 09:00-20:00, Fri. 09:00-17:00, Sat.-Sun. 12:00-16:00.

Services Available

(Y=yes, N=no)

	BICS	Keypunch	PACX	Printers	Network Terminal Server	DCS Micros
AST	N	N	N	Y	Y	N
ASUT	Y	N	N	Y	N	N
CDF	N	N	N	Y	N	N
EAT	N	Y	N	Y	Y	N
Educ	N	N	Y	N	N	N
Erin	N	N	Y	Y	N	N
EUT	Y	N	N	N	N	N
Robarts	Y	N	Y	Y	N	Y
Scar	Y	N	Y	Y	N	N
St.Michael's	Y	N	Y	Y	N	Y
Trinity	Y	N	N	Y	N	N
Victoria	Y	N	Y	Y	N	N

UTCS Services

The principal mandate of UTCS is to plan, implement, and operate central computer facilities and “common-carrier” data networks, and to plan and support divisional, departmental or project computer facilities as requested.

UTCS Centrally Owned and Managed Systems

3033/N12 Processor

- TSO, WYLBUR, APL, Batch
- 12 megabytes of memory
- MVS with JES2

3033/U16 Processor

- provides instructional access using BICS
- 16 megabytes of memory
- UTS (modified UNIX Seventh Edition) under VM/370

DECsystem-10 Model 1090

- provides General Purpose Time-Sharing
- 512 K - 36 bit words of memory
- TOPS-10 operating system, version 7.02
- GALAXY queuing, spooling, and Batch subsystem, Version 4.1

GP UNIX

- provides General Purpose Timesharing using UNIX
- typesetting hardware (CAT/8), and (Varian) for previewing output

Communications & Technical Support

Primary Phones: 978-3787, 978-4967

- Communications Group provides communications systems, terminals, modems, data channels: consulting and installation.
- Field Service Group installs and maintains communications and computer systems on a contract basis or on a cost-per-call basis.

- provides consulting on computer systems technology and installs computer systems
- provides access between the IBM systems and UNIX, as well as VMS oriented machines using Ethernet and DEC-NET technologies, and more basic communications techniques
- provides access to NETNORTH (BITNET), the North American Universities Network, and USENET, the UNIX networking fraternity
- will provide a communications solution to department needs on a contractual basis

User Interface Group

Primary Phone: 978-HELP

- provides advising, consulting and documentation on:
 - command languages including CMS, TSO, WYLBUR, JCL and UNIX
 - high level languages including FORTRAN, APL and PL/I
 - packages and libraries including SAS, SPSS-X, BMDP, IMSL and NAG
 - editors and formatters including XEDIT, TSO, WYLBUR, ed, SCRIBE, nroff/troff
- installs and maintains application packages
- provides courses on the more popular services
- provides general micro support:
 - selection consulting for hardware and software
 - Micro Lab for evaluation of hardware and software
 - advice on University discounts
 - media conversion and data transfer

Facilities Managed by UTCS

4341 Mod II Processor - Administrative Computing

- provides administrative IMS/VS,DB/DC, Batch and TSO
- 16 megabytes of memory
- MVS with JES2

PDP-11/70 UNIX SAS (Statistical Analysis Services)

- provides UNIX Statistical Analysis Service (Dept. of Statistics only)
- 4 megabytes of memory
- UNIX Seventh Edition

Computer Disciplines Facility

VAX-11/750 (4 megabytes of memory)
VAX-11/750 (2 megabytes of memory)
VAX-11/780 (4 megabytes of memory)

- provide Computer Science interactive access
- UNIX (Berkeley Unix 4.2BSD)

Scarborough College Systems

VAX-11/750 (5 megabytes of memory)
VAX-11/750 (2 megabytes of memory)

- provides instructional access using UNIX (Berkeley Unix 4.2BSD)

Erindale College Systems

VAX-11/780 (4 megabytes of memory)

- provides instructional access using VMS
- provides research access

VAX-11/750 (5 megabytes of memory)

- provides instructional access using UNIX (Berkeley Unix 4.2BSD)

Private Funding - Alumni Affairs

VAX-11/750 (6 megabytes of memory)

- provides database services to the owner departments using VMS

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